POLICE

- SAFETY & SECURITY
- PUBLIC AWARENESS

CITY

- FUNDS / RESOURCES
- PASSIVE RECREATION
- COMMUNITY ACTIVITIES
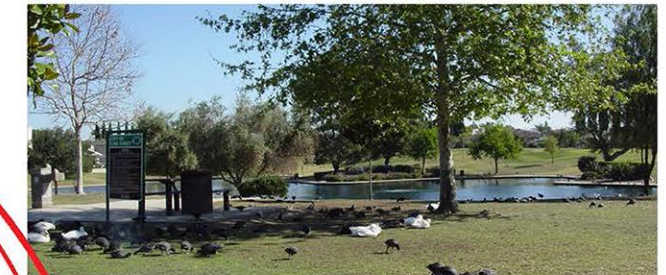- COLLABORATION

GOALS & OBJECTIVES

SAFETY & SECURITY
INFRASTRUCTURE IMPROVEMENTS
POND MITIGATION
PASSIVE RECREATION

RIDGE ROUTE DRIVE

ELROND LANE

SUNNYBROOK CIRCLE

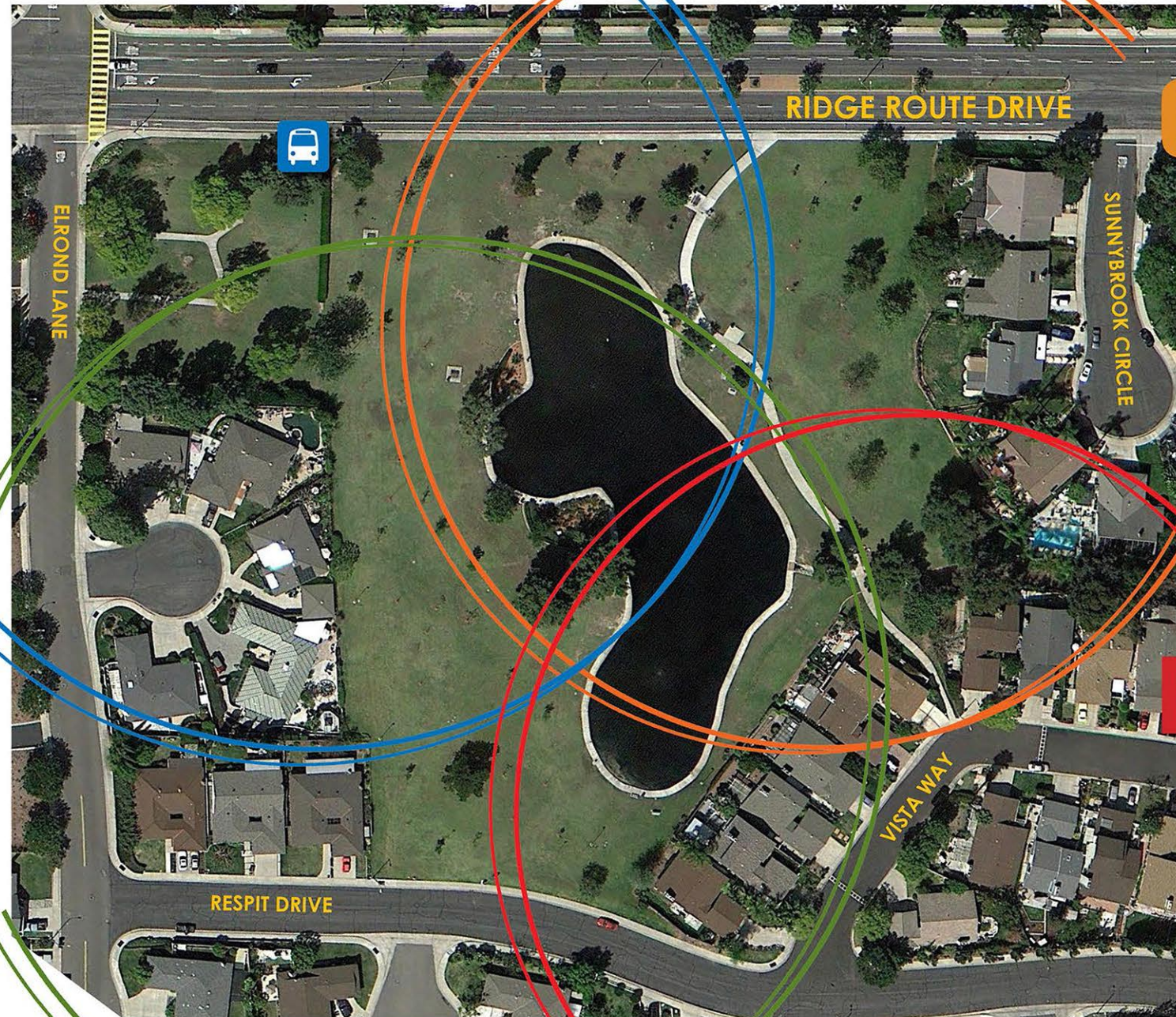VISTA WAY

RESPIT DRIVE

COMMUNITY

- PUBLIC WORKSHOPS
- COMMUNITY OUTREACH
- STAKEHOLDER INPUT
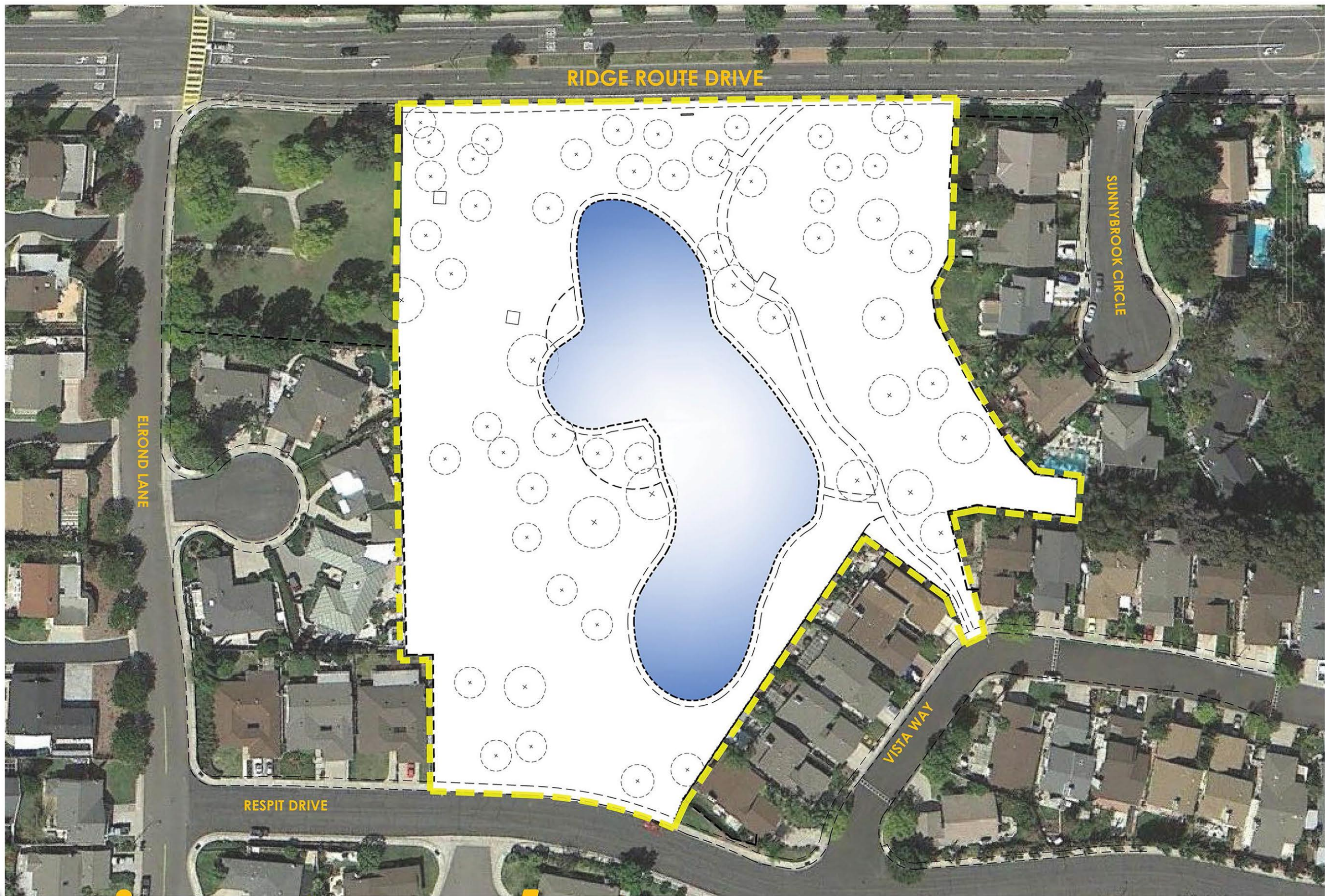- PRIDE OF OWNERSHIP

RESIDENTS

- SAFETY & SECURITY
- NOISE & ENVIRONMENT
- VIEWS INTO THE PARK
- ASSOCIATION & MAINTENANCE

healthy park

VILLAGE POND PARK
City of Lake Forest

NUVIS
LANDSCAPE ARCHITECTURE AND PLANNING

PACE

CITY OF LAKE FOREST
DECEMBER 20, 1991

RIDGE ROUTE DRIVE

SUNNYBROOK CIRCLE

ELROND LANE

VISTA WAY

RESPIT DRIVE

design template

VILLAGE POND PARK
City of Lake Forest

SCALE: 1" = 30'-0"

0'   30'   60'   120'

NŪVIS
LANDSCAPE ARCHITECTURE
AND PLANNING

PACE

CITY OF LAKE FOREST
DECEMBER 20, 1991
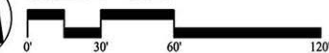
KEEP POND

- PASSIVE PARK / OASIS
- LOVE BIRDS
- PART OF 'LAKE FOREST'
- PEACEFUL SETTING
- NEED MORE MAINTENANCE
- ENHANCE NATURAL PARK
- TOY BOATING
- EDUCATIONAL OPPORTUNITIES
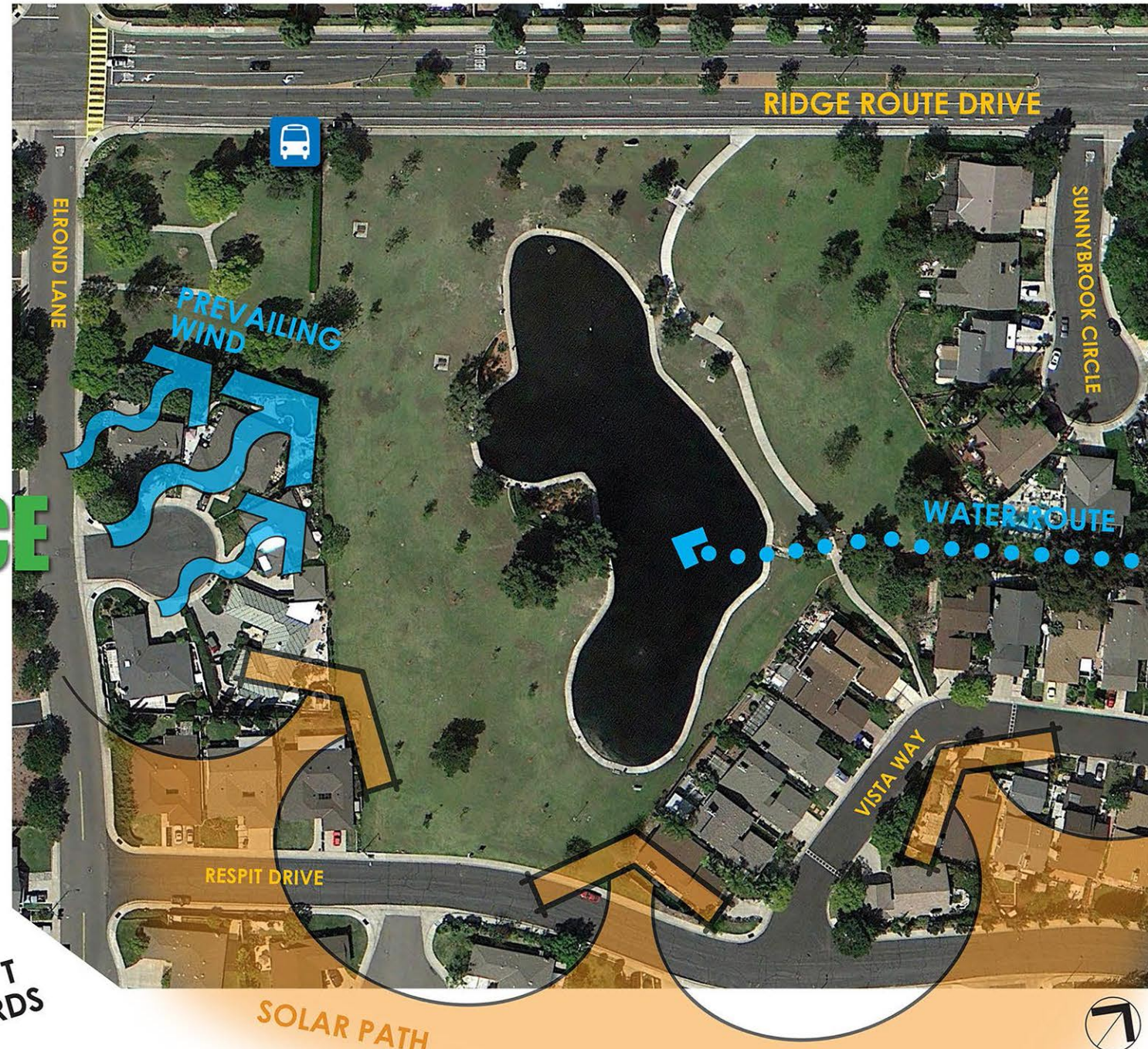- ADDRESS WATER QUALITY ISSUES
- ADD A FOUNTAIN

"THE POND IS GREAT"

ADDING EVENTS = MORE PARKING...WHERE?

REMOVE POND

- UNHEALTHY PARK
- CREATE MORE USEABLE RECREATION SPACE
- CREATE EVENT OR GATHERING SPACE
- CREATE A NATURAL STREAM CHANNEL
- MARK PARK USEFUL FOR ALL OUR LAKE FOREST NEIGHBORS

RIDGE ROUTE DRIVE

ELROND LANE

SUNNYBROOK CIRCLE

PREVAILING WIND

WATER ROUTE

MAINTENANCE & PATROLS

- MORE SIGNS
- EXPANATORY SIGNS
- BIGGER SIGNS
- BILINGUAL SIGNS
- PERIODIC PATROLS
- FINES FOR FEEDING DUCKS
- VOLUNTEER CLEAN-UP
- ADD LIGHTING

"PLEASE DON'T MAKE THE BIRDS GO AWAY!"

RESPIT DRIVE

VISTA WAY

SOLAR PATH

BIRDS & WILDLIFE

- BIRD DROPPINGS NUISANCE
- LAWN QUALITY ISSUES
- NOISE
- PROVIDE HOME FOR BIRDS
- LIKE TURTLES & OTHER WILDLIFE
- EDUCATION OPPORTUNITIES
- KEEP MEMORIAL TREES
- PARTNER WITH LOCAL ZOOS

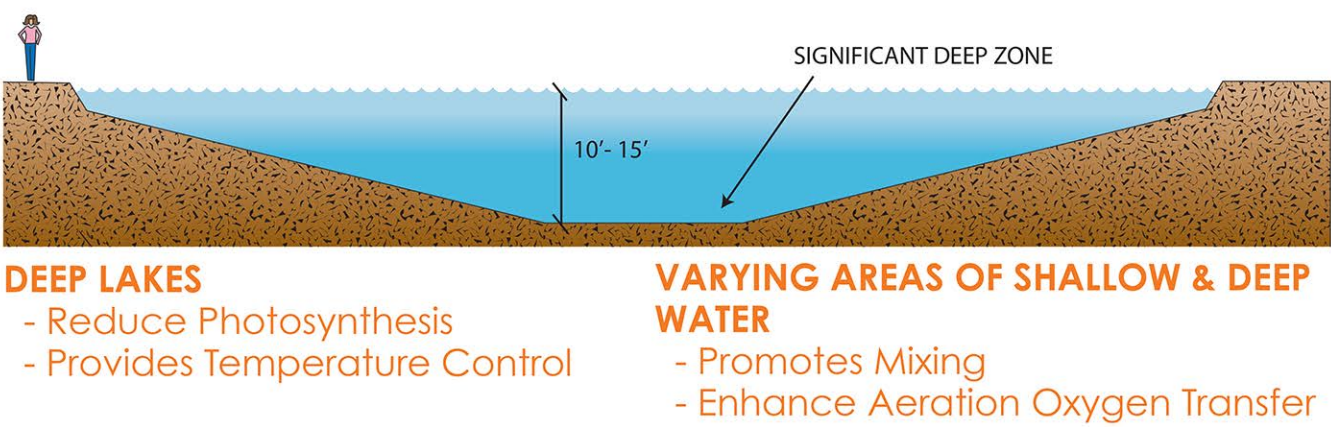*"THE PARK IS OVERRUN WITH BIRDS & THEIR DROPPINGS"*

community input

VILLAGE POND PARK
City of Lake Forest

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GOAL OF LAKE WATER QUALITY MANAGEMENT IS TO CREATE A BALANCED ECOSYSTEM

GOAL
Balanced Manmade Lake Ecosystem

SWIMMING POOL
Sterile Environment

MURKY SWAMP
Excessive Growth

UNDERSTANDING ALGAE CYCLE IS KEY FOR WATER QUALITY MANAGEMENT

ALGAE GROWTH

SUNLIGHT

NUTRIENTS

TEMPERATURE

Note: All lakes have algae to provide a balanced ecosystem; the management of its growth is essential.

LAKE GEOMETRY

SIGNIFICANT DEEP ZONE

10'- 15'

DEEP LAKES
- Reduce Photosynthesis
- Provides Temperature Control

VARYING AREAS OF SHALLOW & DEEP WATER
- Promotes Mixing
- Enhance Aeration Oxygen Transfer

LAKE WATER TURNOVER

RIVER

LEGEND
(Lake Inputs) →
(Lake Outputs) →

NUISANCE & STORM RUNOFF

Precip

Evap

Irrigation

Shallow GW
Dewatering

(Deep GW)
Primary Supply

Lake

Turf

Trees/Shrub

lake features effecting water quality

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LAKES TREAT A WIDE VARIETY OF POLLUTANTS

Bar chart — % REMOVAL:
- TRASH: 90%
- NO³: 90%
- TOTAL N: 90%
- TOTAL 9: 50%
- BACTERIA: 82%
- METAL: 70%
- DRY WEATHER FLOW: 100%

NUTRIENT REMOVAL: BIOFILTRATION

GRAVEL
LAKE
DIFFUSER PIPE

Beneficial Bacteria Outcompete Algae For Lake Nutrients

Natural occuring bacteria covers gravel & removes pollutants as water flows by.
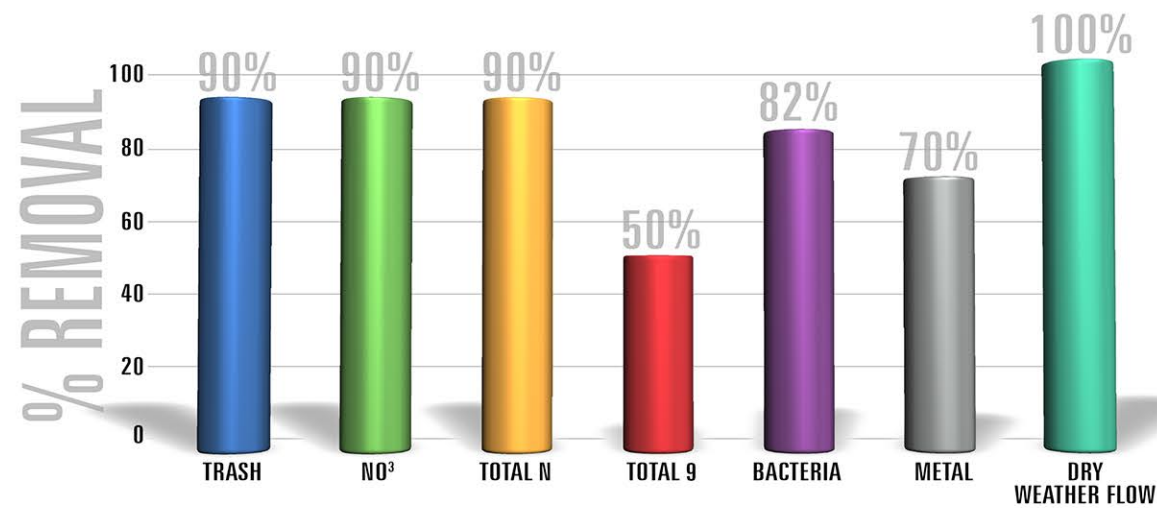
HORIZONTAL & VERTICAL CIRCULATION
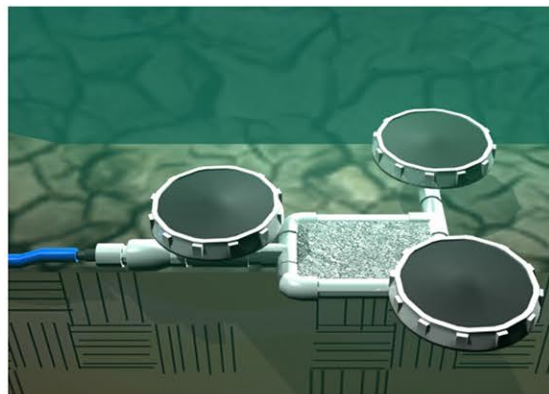
- Prevents Stagnation

AERATION
- Increases Dissolved Oxygen
- Stabilizes Water Density

WETLANDS
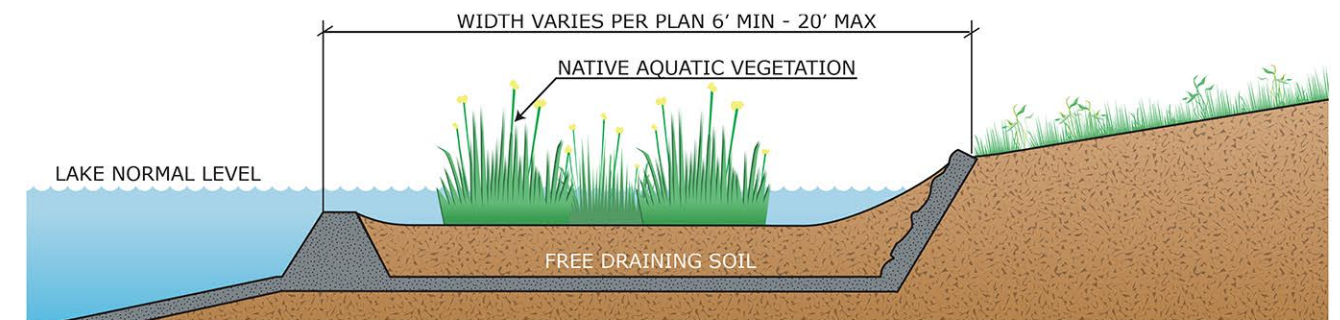

WIDTH VARIES PER PLAN 6' MIN - 20' MAX
NATIVE AQUATIC VEGETATION
LAKE NORMAL LEVEL
FREE DRAINING SOIL

- Suspended solids sedimentation
- Nitrate reduction to nitrogen
- Phosphorus coagulation / settling and uptake
- Biological predation of algae
- Ecosystem development

lake water quality management systems

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EDUCATION
feeding water fowl is not good for the environment, water quality & birds

SHORELINE EDGE CONDITION MODIFICATION
make it more difficult for waterfowl to get in & out of water

ADD SHRUBS AND PLANTINGS TO REDUCE OPEN SPACE
birds like open spaces & presume predators hide behind shrubs

preserving the pond

VILLAGE POND PARK
City of Lake Forest

Lemon Park, Fullerton, CA

Rosie the Riveter Park, Long Beach, CA

Wendt Ranch, Danville, CA

ACTIVE RECREATION

renovate park with large all-access playgrounds

PASSIVE RECREATION

revitalize park with fitness trail, picnic areas, seating & shade
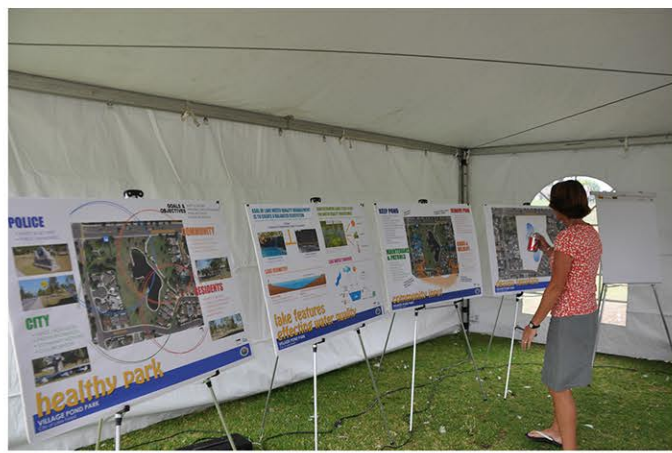
NATIVE RESTORATION

create a sustainable park with seasonal stream channel through previous pond location
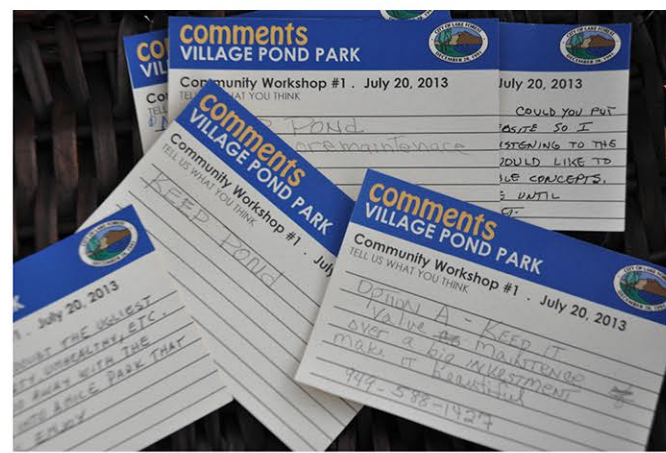
removing the pond

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workshop 1 photos

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